

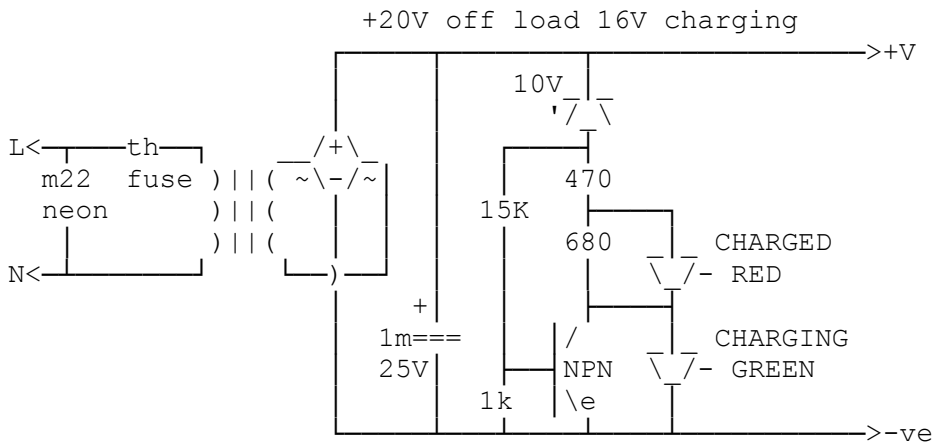
Plug Top PS charge indicator

By G8MNY

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(8 Bit ASCII graphics use code page 437 or 850, Terminal Font)

Here is a circuit used in a small kit battery charger. The battery kit has a battery disconnect feature when fully charged (thermal or voltage end point) etc. & reduces the plug top load.



It relies on the voltage drop of the simple PSU on load to work the indicator electronics.

When load is off the voltage overcomes the zener drop & lights the LEDs. But also turns on the NPN, shorting out the green LED.

When load is on, the voltage still overcomes the zener drop & lights the LEDs. But not enough to turns on the NPN, & the green LED lights & on the lower voltage the 680R across the red LED stops it lighting.

If LEDs are not lit there is either no power or PSU is overloaded!

Adjustments for your PSU might be to make the 1K a 2K2 preset, & select the zenner voltage for your PSU, so that at least 6V is available to the cicuit when charging.

Why don't U send an interesting bul?

73 de John, G8MNY @ GB7CIP